

Answers

1. 20.5; yes, he will manage to drive to the garage.
2. $V = 110 \text{ cm}^3$
3. $AB = 21.4 \text{ cm}$
4. $\frac{2y+3}{2}$
5. proof
6. **(a)** $(x - 2)^2 + 7$. **(b)** parabola with turning point at (2,7) and y-intercept at $y = 11$.
7. 152°
8. $2 \cdot 28 \times 10^6$ people
9. 288 cm^3
10. *median* = $32 \cdot 5 \text{ kg}$, *IQR* = 12 kg
11. **(a)** proof **(b)** $x = 13 \cdot 4 \text{ cm}$
12. **(a)** $a - b$ **(b)** $b - 2a$
13. **(a)** 118° **(b)** 4.7 km
14. $A(63 \cdot 4^\circ, 5)$ and $B(243 \cdot 4^\circ, 5)$